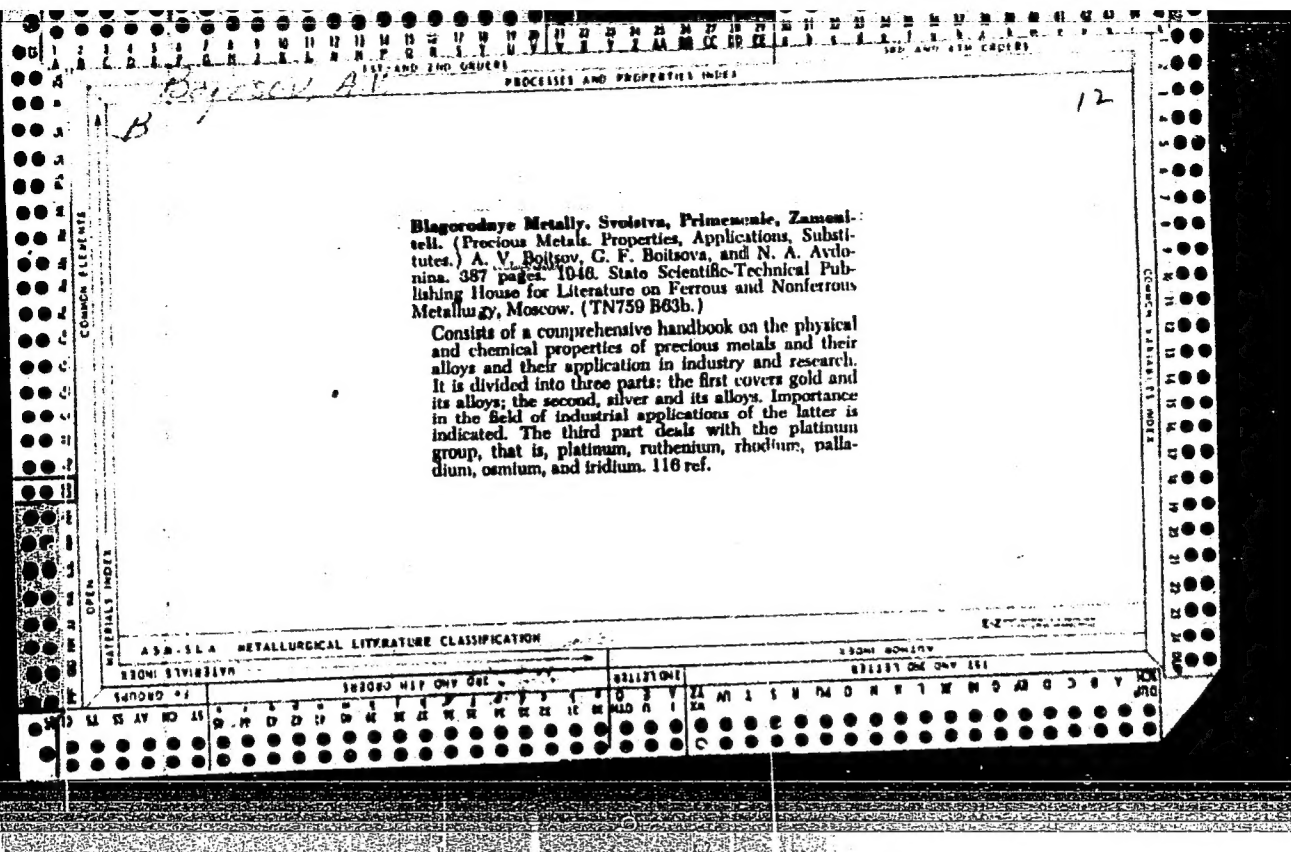




BOYTSOV, Aleksandr Yevgen'yevich; GERASENKOV, Vladimir Iosifovich;
KRIVITSKIY, Konstantin Aleksandrovich; PADERNYI, I.P., kandidat
tekhnicheskikh nauk, redaktor; YUDZON, D.M., tekhnicheskiiy redaktor

[Electric supply for communication installations] Eletropitanie
ustroistv svyazi. Moskva, Gos.transp.zhel-dor. izd-vo, 1955. 319 p.
(Electric engineering) (MIRA 9:3)

BOYTSOV, Aleksandr Yevgen'yevich; SEVEROV, N.A., otvetstvennyy redaktor;
SHAURAK, Ye.N., redaktor; DLUGOKANSKAYA, Ye.A., tekhnicheskii
redaktor

[Lighting engineering for ships] Sudovaya svetotekhnika. Leningrad,
Gos. sciuznoe izd-vo sudostroit. promyshl., 1956. 203 p.

(MLRA 10:4)

(Electricity on ships) (Lighting)

GALICH, Iliodor Illarionovich; KITAYENKO, G.I., ~~retsensent~~; TIMOFEYEV,
B.S., ~~retsensent~~; BOYTSOV, A.Ye., ~~retsensent~~; NIKITINA, M.I.,
red.; TSAL, R.K., tekhn. red.

[Electric control systems of ships] Sudovye elektricheskie
ustanovki upravleniia. Leningrad, Sudpromgiz, 1962. 259 p.
(MIRA 16:2)

(Ships—Electric equipment)
(Ships—Electronic equipment)

BOITSOV, Aleksandr Yevgen'yevich; MAGARSHAK, Boris Grigor'yevich;
POLYAKOV, Nikolay Aleksandrovich; CHERNIKOV, L.V., nauchnyy
red.; NIKITINA, R.D., red.; FRUMKIN, P.S., tekhn.red.

[Electric power generators and converters] Istochniki i
preobrazovateli elektricheskoi energii. Leningrad, Gos.
soiuznoe izd-vo sudostroitel'noy promyshl., 1960. 462 p.

(MIRA 14:4)

(Electric machinery)

BOYTSOV, Aleksandr Yevgen'yevich; CHETVERIKOVA, Yevdokiya Aleksandrovna;
SEMIRENKO, B.F., inzh., retsenzent; FOMICHEV, Ye.A., inzh., re-
tsenzent; MARENKOVA, G.I., inzh., red.; NOVIKAS, M.N., inzh., red.;
BOBROVA, Ye.N., tekhn. red.

[Electric power supply to automatic control and remote control
devices] Energosnabzhenie ustroystv avtomatiki i telemekhaniki.
Izd.2., perer.i dop. Moskva, Vses.izdatel'sko-poligr.ob"edinenie
M-va putei soobshcheniia, 1961. 215 p. (MIRA 14:12)
(Automatic control) (Remote control)
(Electric power supply to apparatus)

YAKOVLEV, Georgiy Semenovich; TRAPER, Ye.I., inzh., retsenzent; CHEKUNOV,
K.A., inzh., retsenzent; BOYTSOV, A.Ye., nauchnyy red.; CHICHKANOVA,
V.S., red.; ERASTOVA, N.V., tekhn. red.

[Marine electric power systems] Sudovye elektroenergeticheskie siste-
my. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1961. 351 p.
(MIRA 14:12)

(Electricity on ships)

BOYTSOV, Aleksandr Yevgen'yevich; ZABELOTSKIY, A.I., retsenzent;
M.M., nauchnyy red.; KLIMINA, Ye.V., red.izd-va;
ERASTOVA, N.V., tekhn. red.; KRYAKOVA, D.M., tekhn. red.

[Lighting equipment of ships] Sudovaya svetotekhnika. Izd.2.,
dop. i perer. Leningrad, Sudpromgiz, 1963. 242 p. (MIRA 16:6)
(Ships' lights) (Electricity on ships)

BOYTSOV, Aleksandr Yevgen'yevich [deceased]; YAKOVLEV, G.S., kand.
tekh. nauk; REBO, N.Yu., retsenzent; AL'TSHULER, G.A.,
retsenzent; LEYKINA, T.L., red.

[Electric equipment on ships] Sudovaia elektricheskaya ap-
paratura. Leningrad, Sudostroenie, 1964. 223 p.
(MIRA 17:11)

SARANKIN, V.A., inzh.; DEKHANOV, N.M., inzh.; BOYTSOV, L.I., inzh.;
ZEL'DIN, V.S., inzh.; CHUPAKHIN, Yu.M., inzh.

Effect of conditions of slag formation on the quality technical
and economic indices of the production of carbon-free
ferrochromium. Stal' 25 no.10:915-916 O '65. (MIRA 18:11)

1. Zaporozhskiy zavod ferrosplavov.

DEKhanov, N .M.; BOYTSOV, L.I., kand. tekhn. nauk; KRAVCHENKO, V.A.,
kand. tekhn. nauk; SNEZHKO, P.F.; ZEL'DIN, V.S.; KHARLAMOV, I.G.
[deceased]; RUNOV, M.A.; SEREBRENNIKOV, A.A.; MATYUSHENKO, V.I.

Production of high-quality ferrosilicon powder for heavy
suspensions. Met. i gornorud. prom. no.4:14-16 J1-Ag '65.
(MIRA 18:10)

BOYTSOV, B., brigadir

How should an integrated brigade operate. Mast. ugl. 8 no.5:9-10
My '59. (MIRA 12:8)

1. Kompleksnaya birgada shakhty No.5 kombinata Vorkutugol'.
(Coal mines and mining)
(Mine management)

BOYTSOV, G., inzh.; VLADIMIROV, N., inzh.; GROMOV, M., inzh.

Thorough study of piloting. Rech. transp. 21 no. 5:48-49 My
'62. (MIRA 15:5)
(Pilots and pilotage)

CHUVIKOVSKIY, V.S., referent; NOVOZHILOV, V.V., referent; PERNIK, A.D.,
referent; YEGOROV, I.T., referent; TITOV, I.A., referent;
FIRSOV, G.A., referent; BOYTSOV, G.V., inzh.; BASIN, A.M., referent

Scientific engineering conference on hydromechanics and structural
mechanics of ships. Sudostroenie 24 no.7:86-87 J1 '58. (MIRA 11:9)
(Naval architecture--Congresses)

BEL'GOVA, M.A.; BOYTSOV, G.V.; KANFOR, S.S.; KOROTKIN, Ya.I.; KUZOVENKOV, B.P.; MAKSIMADZHI, A.I.; NEBYLOV, V.M.; SBOROVSKIY, A.K.; TAUBIN, G.O.; FILIPPEO, M.V.; CHUVIKOVSKIY, G.S.; SHIMANSKIY, Yu.A., akademik, red.; LUCHININOV, S.T., otv.red.; OSVENSKAYA, A.A., red.; KONTOROVICH, A.I., tekhn.red.

[Handbook on structural mechanics of ships] Spravochnik po stroitel'noi mekhanike korablia. Leningrad, Gos.soiuznoe izd-vo sudostroitel'noy promyshl. Vol.3. 1960. 799 p.

(Shipbuilding)

(MIRA 14:1)

BOYTSOV, Gennadiy Vladimirovich; NEBYLOV, Vladimir Matveyevich;
TAUBIN, Georgiy Osipovich. Prinimal uchastiye SHAVROV, Yu.N.;
BAYKOV, D.I., kand. tekhn.nauk, retsenzent; KOROTKIN, Ya.I.,
kand. tekhn.nauk, retsenzent; SHAKHNOVA, V.M., red.; TSAL,
R.K., tekhn. red.

[Strength of ship structures from aluminum alloys; design and
calculations] Prochnost' sudovykh konstruktsei iz aliumineievykh
splavov; proektirovanie i raschet. Pod obshchei red. G.O.Taubina.
Leningrad, Sudpromgiz, 1962. 211 p. (MIRA 15:7)
(Hulls (Naval architecture)) (Aluminum alloys)

ACC NR: AP5028407

SOURCE CODE: UR/0229/65/000/010/0012/0014

AUTHOR: Boytsok, G. V.

ORG: none

TITLE: The strength of hydrofoil hulls

SOURCE: Sudostroyeniye, no. 10, 1965, 12-14

TOPIC TAGS: hydrofoil, hydrofoil hull, *shear stress, elasticity, bending stress*

ABSTRACT: A simplified method for calculating stresses in a hydrofoil's hull, considering its strength reduction due to window cutouts (see Fig. 1), is presented. The

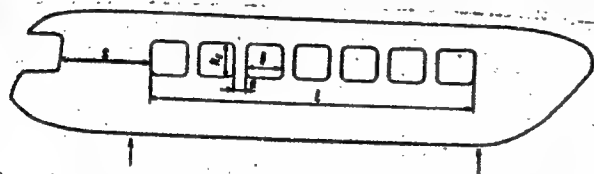


Fig. 1. Side view of hydrofoil superstructure

hull is considered a structure consisting of two bars located above and below the windows and linked together by a longitudinal connection elastically resistant to shear. The blunt ends of the side walls are considered elastic strengtheners of the upper

Card 1/3

UDC: 629.12.011.17:624.02/.09

L 9546-66

ACC NR: AP5028407

bar (see Fig. 2). Based on the general derivation of the differential equation for

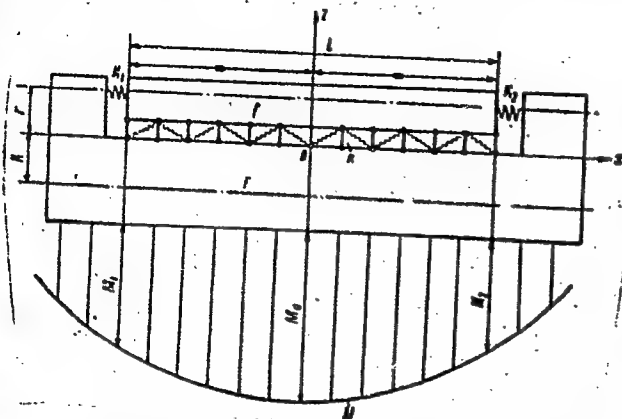


Fig. 2. Stress-calculation diagram

the elasticity of such a schematized structure, equations are given for calculating the effectiveness of the roof in participating in the hull bending, the normal stresses in the roof and side walls, the rigidity of webs between the windows, and the rigidity of the side wall ends and their maximum tension and shear stresses, considering the webs to be rigid in their upper and lower bearing areas. Strength calculations made by this method show that window cutouts decrease the effect of the hull roof in gener-

Card 2/3

I 0516-66
ACC NR: AP5028407

al bending and that the roof's participation in bending is primarily assured by blind and rigid portions of side walls and is not noticeably affected by interwindow webs of a small width-to-length ratio ($a/h_0 \leq 1/3 - 1/4$). The displacement of the roof relative to the walls, due to shear forces, can produce significant bending stresses in the webs which, due to their change in sign, can generate fatigue cracks. Orig. art. has: 2 figures and 9 formulas. [GE]

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 001/ ATD PRESS: 4150

Card 3/3

100-50000
SITKHINA, Dina Yefimovna, dots.kand.ekon.nauk; DELIMOV, A.I., kand.ekon.nauk, retsenzent; BOYTSOV, K.P., kand.ekon.nauk, retsenzent; PETROV, B.S., prof., doktor ekon.nauk, otvetstvennyy red.; BRUK, A.Ya., red.

[Organization and planning of production at enterprises of the wood pulp and wood chemical industries; manual on planning for students in engineering and economics departments] Organizatsiia i planirovanie proizvodstva na predpriatiakh tselliulozno-bumazhnoi i lesokhimicheskoi promyshlennosti; rukovodstvo k kursovomu proektirovaniu dlia studentov inzhenerno-ekonomicheskogo fakul'teta. Leningrad, Izd. VZLTI, 1956. 86 p. (MIRA 11:4)
(Wood-using industries)

PROKHORCHUK, I.S., prof.; SAMKULO, G.M., dots.; BOYTSOV, K.P., dots.;
NECHUYATOVA, N.P., dots.; POPOV, N.I., dots.; SITKHINA, D.Ye.,
MITIN, A.G., dots.; SUCHIL'NIKOV, N.G., red.; GOSPODARSKAYA, T.N.,
red. izd-va; GRECHISHCHEVA, V.I., tekhn. red.

[Economics of the woodworking industry] Ekonomika lesoobrabaty-
vaiushchei promyshlennosti. Moskva, Goslesbimizdat, 1961. 309 p.

(MIRA 15:3)

1. Leningradskaya lesotekhnicheskaya akademiya im. S.M.Kirova (for
Prokhorchuk, Boytsov, Nechuyatova, Popov, Sitkhina, Mitin).

2. Vsesoyuznyy zaochnyy lesotekhnicheskii institut (for Samkulo).
(Woodworking industries)

BOYTSOV, K.P.; SHEYNOV, I.I.

[Organization and planning of the equipment of woodworking industries; transcript of a lecture] Organizatsiia i planirovanie remontov oborudovaniia derevoobrabatyvaiushchikh predpriatii; stenogramma lektsii. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1962. 47 p. (MIRA 15:9)
(Woodworking machinery--Maintenance and repair)

SAMKNULO, Grigoriy Mikhayevich; BOYTSOV, K.P., red.; TELYASHOV,
R.Kh., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Economic efficiency of introducing new technology] Eko-
nomicheskaya effektivnost' vnedreniya novoi tekhniki;
stenogramma lektsii. Leningrad, 1963. 36 p.

(MIRA 16:11)

(Technological innovations)

(Efficiency, Industrial)

DELIMOV, Aleksandr Ivanovich; dots., kand. ekon. nauk; BOYTSOV, K. P.,
red.; SEDOVA, Z. D., red. izd-va; KARLOVA, G. L., tekhn. red.

[Economics and the production planning of wood-fiber
and particle boards] Ekonomika i planirovanie proizvod-
stva drevesno-voloknistykh i struzhechnykh plit. Mo-
skva, Goslesbumizdat, 1963. 146 p. (MIRA 16:11)
(Hardboard)

VOLKOV, V.F.; SARANKIN, V.A.; KRAVCHENKO, V.A.; BOYTSOV, L.I.

Improving the technology of making carbon-free ferrochromium in
arc furnaces. Stal' 22 no.1:43 Ja '62. (MIRA 14:12)
(Iron-chromium alloys--Electrometallurgy)

SAPKO, A.I., kand.tekhn.nauk; DOBROV, V.P., kand.tekhn.nauk; DEM'YANETS, L.A.,
inzh.; DEKHANOV, N.M., inzh.; VOLKOV, V.F., inzh.; KRAVCHENKO, V.A.,
inzh.; BOYTSOV, L.I., inzh.; SEMENOVICH, B.V., inzh.; FRISH, M.I.,
inzh.

Investigating power regulators with electromechanical and
electrohydraulic drives on ferroalloy refining furnaces. Stal'
22 no.4:321-324 Ap '62. (MIRA 15:5)
(Electric furnaces)

ZEL'DIN, V.S., inzh.; DEKhanov, N.M., inzh.; BOYTSOV, L.I., inzh.;
SARANKIN, V.A., inzh.

Experience in the industrial application of nonfluxed manganese
sinter for the smelting of 82% silicomanganese. Stal' 25 no.8:
718 Ag '65. (MIRA 18:8)

L 65105-65 EWP(e)/EWP(m)/EWP(t)/EWP(k)/EWP(z)/EWP(b) IJP(c) JD

ACCESSION NR: AP5021976

UR/0286/65/000/014/0038/0038
669.167.24

AUTHOR: Dekhanov, N. M.; Boytsov, L. I.; Zel'din, V. S.; Klassen, V. I.; Kurenkov, I. I.; Plaksin, I. N.; Runov, M. A.; Sflayev, A. F.; Snezhko, P. F.

TITLE: A method for producing dispersed ferrosilicon powder. Class 18, No. 172853 35
B

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 38

TOPIC TAGS: powder metal production, silicon alloy, iron alloy

ABSTRACT: This Author's Certificate introduces a method for producing dispersed ferrosilicon powder with a particle size of no more than 100 microns by vaporizing the molten material using hot or cold air. The yield of fine particles is increased and spherical grains are produced by heating the melt in the 1550-1650°C range and passing it through a silicified sleeve with a valibrated opening which guarantees a constant flow of metal. The melt is then sprayed and the particles are separated according to size.

ASSOCIATION: none

SUBMITTED: 19Oct63

NO REF SOV: 000

Card 1/1 *MBP*

ENCL: 00

OTHER: 000

SUB CODE: MM

BOYTSOV, M.

Let's collect refuse in a new way. Prom.koop. 14 no.4:21 4p '60.
(MIRA 13:6)

1. Predsedatel' pravleniya arteli "Zagotvtorsyr'ye No.5," Leningrad.
(Salvage (Waste, etc.))

BOYTSOV, M.N.

Irregular epeirogeny in the Ob' Delta. Inform.sbor. VSEGEI
no.1:40-41 '55. (MLRA 9:12)

(Ob' Delta--Subsidences (Earth movements))

BOYTSOV, M.N. (Leningrad).

~~_____~~
Frozen ground phenomena in Leningrad. Priroda 46 no.4:114

Ap '57.

(MLRA 10:5)

(Leningrad--Frozen ground)

BOYTSOV, M.N.

formation of the relief under the conditions of underground
glaciation. Trudy VSEGEI 64:27-36 '61. (MIRA 15:6)
(Frozen ground) (Landforms)

BOYTSOV, M.N.

Some forms of frozen relief in the West Siberian Plain. Inform.sbor.
VSEGEI no.52:93-102 '62. (MIRA 15:11)
(West Siberian Plain--Frozen ground)
(West Siberian Plain--Landforms)

BOYTSOV, M.N.

Genesis and evolution of polygonally jointed relief. Trudy
VSEGEI 90:55-80 '63. (MIRA 17:5)

BOYTSOV, N., inzh. (g.Borovichi, Novgorodskoy obl.)

Lighting turns on automatically. Zhil.-kom. khoz.ll no.7:15-16

Jl '61.

(MIRA 14:7)

(Automatic timers)

(Lighting)

BOYTSOV, M.N.

Traces of periglacial phenomena in the eastern slope of the
Southern Urals. Mat. VSEGEI no.67:107-128 '61. (MIRA 15:12)
(Ural Mountains—Frozen ground)

BOYTSOV, M.N.

History of permafrost relief in the southeast of the Yamal Peninsula.
Inform.sbor.VSEGEI no.53:3-20 '62 (MIRA 17:1)

BOYTSOV, N.I.

BEZUGLOV, I.Ye.; KURDYUMOV, V.N., inzh.; V rabote prinimali uchastiye:
 GABRILENKO, I.V.; GRABOVSKIY, I.I.; NESHCHADIM, A.G.; BELOBORODOV,
 V.V.; VISHNEPOL'SKAYA, F.A.; MATSUK, Yu.P.; GAYTSKHOKI, N.I.;
 USACHEV, A.S.; ABKINA, N.N.; RUMYANTSEVA, A.G.; KOSHELEV, A.P.;
 GRIGOR'YEV, F.L.; LUKASHEVICH, A.M.; STYAZHKINA, A.G.; MIKHAYLOVICH,
 A.N.; YEDEMSKIY, P.M.; MASLOV, P.V.; KUDRYASHEVA, Z.P.; PROSMUSHKIN,
 R.M.; SHTAL'BERG, V.A.; BOYTSOV, N.I.

Operational experience with a newly introduced oil-extraction line
 equipped with the DS-70 belt-conveyer extractor. Masl.-zhir.prom.
 26 no.3:29-31 Mr '60. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for
 Bezuglov, Gabrilenko, Grabovskiy, Neshchadim, Beloborodov,
 Vishnepol'skaya, Matsuk and Gaytskhoki). 2. Leningradskiy
 zhirovoy kombinat (for Kurdyumov, Usachev, Abkina, Rumyantseva,
 Koshelev, Grigor'yev, Lukashevich, Styazhkina, Mikhaylovich,
 Yedemskiy, Maslov, Kudryasheva, Prosmushkin). 3. Leningradskoye
 otdeleniye tresta "Prodmontazh" (for Shtal'berg and Boytsov).
 (Leningrad--oils and fats)
 (Extraction apparatus)

COUNTRY : USSR M
 CATEGORY : CULTIVATED PLANTS, Fodder Grasses and Roots
 ABST. JOUR. : REF ZHUR - BIOLOGIYA, NO. 4, 1959, No.15693
 AUTHOR : Boytsov, S.I.
 INST : Kolomenskiy Agric. Technical School
 TITLE : Reasons for Death of Clover under Cover

ORIG. PUB. : Zemledeliye, 1958, No.1, 73-75

ABSTRACT : At the experimental training farm of the Kolomenskiy agricultural technikum of Moscow oblast, it was established by experiments in 1950 to 1955 that under a cover of high crop-yield winter crops, clover is thinned out more intensively than under summer grain crops. The reseedling of clover to winter grains in the spring is possible only when the soil is strongly packed and the clover seed rapidly swells and germinates; in a dry spring with the

CARD: 1/3

CLASS. IN
CATEGORY

CULTIVATED PLANTS.

ARS. JOUR. REF ZHUR - BIOLOGIYA, NO. 4, 1959,

AUTHOR
TITLE
SUBJECT

No. 15693

ORIG. IUP. :

ABSTRACT

formation of crust, the primary roots dry out in many sprouts and the plants perish. Starting early to grow in spring, the winter crops evaporate much moisture. But under summer crops of grain the clover is reseeded in freshly loosened soil and endures a considerable part of its early spring drought in the unaprooted state. In May and June, the periods critical for clover growth, the summer crops evaporate little moisture. Under the cover of

CARD: 2/3

COUNTRY :
CATEGORY :

CULTIVATED PLANTS.

ABST. JOUR. REF ZHUR - BIOLOGIYA, NO. 4, 1959,

No. 15603

AUTHOR :

INCL :

TITLE :

ORIG. PUBL. :

ABSTRACT

grain, clover is often subjected to diseases and pests: infection with fusarium wilt and rhizoctonia was two to three-fold greater under rye cover than under oats. When the cover crop was sown after vetch-oats mixture, infection with sweet clover weevil was three times higher than after pure fallow and other non-leguminous predecessors.
-- O.A. Gorbunova

CARD: 3/3

88

BOYTSOV, V.G.; GOTLIB, Yu.Ya.

Calculation of the C=O valence vibration frequency for cis and curled isomers of molecules of the type $\text{ClCH}_2-\text{C}(\text{O})\text{R}$.
Opt. i spektr. 11 no.5:691-693 N '61. (MIRA 14:10)
(Molecular dynamics)

L 18026-63

EWP(q)/EWT(m)/BDS AFFTC/ASD RDW/JD

ACCESSION NR: AP3003875

S/0151/63/005/007/1822/1825

AUTHOR: Boytsov, V. G.

TITLE: Determining the force constants and computing the vibrational spectrum
of tellurium ⁵⁶₅₅

SOURCE: Fizika tverdogo tela, v. 5, no. 7, 1963, 1822-1825

TOPIC TAGS: force constant, vibrational spectrum, Te, vibrational frequency, chain, spiral chain, torsion, deformation, valence, tellurium

ABSTRACT: The force constants, including the torsional spiral constant, are determined for isolated spiral chains of Te. These values are shown in Table 1 (see enclosure). On the basis of these constants, the vibrational spectrum of Te is computed by using a model of an infinite one-dimensional molecular crystal in a Urey-Bradley potential field. These results are shown in Table 2 (see enclosures) in comparison with experimental data taken from R. S. Caldwell and H. J. Fan (Phys. Rev., 114, 664, 1959). In view of the good agreement between computed and experimental frequencies, it is concluded that a proper selection of force constants was made. The computed values of frequencies are sometimes

Card 1/A 2

L 18026-63

ACCESSION NR: AP3003875

slightly higher, but for torsional constants they are lower, and the divergence from experimental values is greatest for these. Orig. art. has: 2 tables and 2 formulas.

ASSOCIATION: Leningradskiy electro-tekhnicheskiy institut svyazi im. prof. M. A. Bonch-Bruyevicha (Leningrad Electrical Engineering Institute of Communications)

SUBMITTED: 29Jan63

DATE ACQ: 15Aug63

ENCL: 02

SUB CODE: PH

NO REF SOV: 006

OTHER: 012

Card 2/4 2/

L 17787-63

ENP(j)/BDS ASD Pc-4 RM/MAY

ACCESSION NR: AP3005844

8/0051/63/015/002/0216/0220

AUTHOR: Boytsov, V.G.; Gotlib, Yu.Ya.

TITLE: Concerning rotational isomerism in polyethylene terephthalate 57

SOURCE: Optika i spektroskopiya, v.15, no.2, 1963, 216-220

TOPIC TAGS: rotational isomerism, molecular fragment, absorption spectrum, polyethylene terephthalate

ABSTRACT: The purposes of the work were to substantiate the inference of rotational isomerism in a fragment of the chain of polyethylene terephthalate and to show that calculation of the vibrational frequencies of individual groupings or fragments of macromolecules allows of explaining the experimentally observed correlation between changes in the structure of these fragments and the changes in the frequencies of some modes in the spectra. The data and inferences of many investigators who have studied the infrared absorption spectra of polyethylene terephthalate and allied compounds are reviewed and cited at considerable length. It is noted that there are two possible configurations of the $-\text{OCH}_2-\text{CH}_2\text{O}-$ group: a trans configuration (A and B in the figure shown in the Enclosure) and a convoluted configuration (A' and B'). Accordingly, the authors calculated the frequencies

Card 1/2

L 17787-63

ACCESSION NR: AP3005844

of the different normal modes of the subgroups and bonds comprising the --OCH₂-CH₂O-- fragment for the two configurations, using the force constants deduced from data on the spectra of various low-molecular compounds. The calculations involved solving secular equations of up through the 11-th order on a "Strela" computer. The results together with the corresponding experimental data are tabulated. The calculations yielded values for the deformation vibrations of the CH₂ groups in fairly good agreement with experiment. However, the calculated results for some of the other modes (skeletal C-O vibrations and others) diverge appreciably from the experimental values, possibly owing to the fact that the influence of the atoms at the ends of the fragment was not taken into account. Nevertheless the results validate the approach and show that calculations for fragments of macromolecules can help explain the relation between isomeric transformations and alterations in infrared spectra. Orig.art.has: 1 figure and 1 table.

ASSOCIATION: none

SUBMITTED: 21Dec62

DATE ACQ: 06Sep63

ENCL: 01

SUB CODE: PH, CH

NO REF SOV: 003

OTHER: 022

Card 2/37

L 10813-65 EWT(1)/EWG(k)/EWT(m) EEC(1)/EWP(b) Pz-6 IJP(c)/ESD/SSD(t)/
 ESD(gs)/AFMDO/AFWL/AS(mp)-2 RDW/DD/AT
 ACCESSION NR: AP4046642 S/0181/64/006/010/3164/3166

AUTHOR: Boytsov, V. G.; Tazankov, B. A.

TITLE: Photoconductivity of high-resistance selenium films in strong fields

SOURCE: Fizika tverdogo tela, v. 6, no. 10, 1964, 3164-3166

TOPIC TAGS: xerography, amorphous selenium film, selenium, electrical conductivity, photoconductivity, electrostatics

ABSTRACT: The electrical conductivity and photoconductivity of selenium films were measured. The films were vacuum-deposited onto brass substrates some of which were heated and others kept at 10C in order to obtain amorphous layers. It was established that the dark current shows a markedly nonlinear dependence on voltage; at voltages lower than the critical value U_{crit} , which coincides with the value of the film's potential, it is almost undetectable and then rapidly rises. The photoconductivity of the films at $U < U_{crit}$ is always positive unless the polarity of the applied voltage is changed, which makes it negative for a time. At $U > U_{crit}$ the resistance of the films is

Card 1/2

L 10813-65
ACCESSION NR: AP4046642

negative, that is, voltage decreases with increasing current. In the case of amorphous films at $U > U_{crit}$, photoconductivity was observed to be always negative. When the film is illuminated, the current across the film layer decreases rapidly and when the light is switched off, it rises to the original value. No negative photoconductivity has been detected in films deposited on heated substrates. The authors think that the observed peculiarities can be qualitatively explained by the contemporary concepts of injected space-charge-limited currents in dielectrics with traps, as expounded by Lampert and other American writers. Orig. art. contains 1 figure.

ASSOCIATION: Leningradskiy gosudarstvennyy pedagogicheskiy institut imeni A. I. Gertsena (Leningrad State Pedagogical Institute)

SUBMITTED: 18May64

ATD PRESS: 3117

ENCL: 00

SUB CODE: SS, EM

NO REF SOV: 000

OTHER: 008

Card 2/2

ACC NO: ARG017148

SOURCE CODE: UR/0275/66/000/001/B006/B006

AUTHOR: Boytsov, V. G.; Tazekov, B. A.

TITLE: Trapping and release of current carriers in highly resistive selenium films

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 1B43

REF SOURCE: Sb. Fizika. Dokl. k XXIII Nauchn. konferentsii Leningr. inzh.-stroit. in-sh. L., 1965, 37-40

TOPIC TAGS: selenium, minority carrier

TRANSLATION: The volt-ampere characteristics of photoelectric selenium layers with rubbing electrodes were examined. Slow falling changes in current were observed when the power was turned on or stepped up. Study of the long wave boundary of the depolarization current, which was generated by shorting the previously illuminated film in the dark, made it possible to locate the deep $E < 2.5$ eV traps responsible for the slow processes; this is in agreement with the data on optical absorption in Se. The density of trapped photocarriers near the illuminated electrode ($\approx 10^{16} \text{ cm}^{-3}$ in layer of thickness $\sim 10^{-5} \text{ cm}$) was evaluated. V. L.

SUB CODE: 09

UDC: 539.293:546.23

Card 1/1

L 02226-67 EWT(1)/EWT(m)/I/EWP(t)/ETI
ACC NR: AR6013675

IJP(c) JD/AT
SOURCE CODE: UR/0058/65/000/010/E077/E077

AUTHOR: Boytsov, V. G.; Tazekov, B. A.

TITLE: Negative photoconductivity of electrophotographic selenium films

SOURCE: Ref. zh. Fizika, Abs. 10E624

REF. SOURCE: Sb. Fizika, Dokl. k XIII Nauchn. konferentsii Leningr. inzh.-stroit. in-ta. L., 1965, 55

TOPIC TAGS: photoconductivity, electrophotography, volt ampere characteristic, selenium, ir spectrum, photoconducting film, semiconductor carrier

ABSTRACT: A study was made of the volt-ampere characteristic and photoconductivity of electrophotographic layers of selenium. A section with negative resistance corresponding to negative photoconductivity, whose spectral maximum is located near the boundary of the red and infrared regions of the spectrum, was observed on the volt-ampere characteristic. The results are explained on the basis of motions concerning double injection of the carriers under the condition $\gamma_p \gg \gamma_n$. (Translation of abstract).

SUB CODE: 20

Card 1/1 LC

BOYTSOV, V.I.

REMIZOVA, Z.I., kandidat meditsinskikh nauk; BOYTSOV, V.I.

Vaccinoform pustulosis. Vop. okh. mat. i det. 2 no.2:89-92
Mr-Ap '57 (MIRA 10:4)

1. Iz kafedry propedevтики detskikh bolezney (zav.-prof. V.A.
Vlasov) II Moskovskogo meditsinskogo instituta imeni I.V. Stalina.
(SKIN--DISEASES)

BOYTSOV, V.I.

Rare case of congenital heart defect. Vop. okhr. mat. i det. 6
no.6:75-77 Je '61. (MIRA 15:7)

1. Iz Lipetskoy gorodskoy detskoy ob'yedinennoy bol'nitsy
(glavnyy vrach N.G. Chugunova).
(HEART---ABNORMITIES AND DEFORMITIES)

S/181/63/005/004/011/047
B102/B186

AUTHOR: Boytsov, V. G.

TITLE: Determination of the force constants and calculation of the vibrational spectrum of crystalline selenium

PERIODICAL: Fizika tverdogo tela, v. 5, no. 4, 1963, 1050 - 1054

TEXT: Continuing a previous paper (Tr. Uch. inst. svyazi, No. 13, 150, 1962) where the optical properties of Se in the visible had been investigated, the author now studies the IR absorption of crystalline Se pertaining to lattice vibrations. The force coefficients of the internal lattice field are calculated from the experimentally determined frequencies and are theoretically verified by calculating the spectrum of the hexagonal selenium using the Urey-Bradley potential function (Phys. Rev. 38, 1969, 1931). The normal vibration frequencies are calculated on the basis of the model of the infinite linear oscillator. The force constants obtained by a variational method were (in terms of 10^6 cm^{-2}) Kr, H, F, F': 13.8, 1.8, 2.3, -0.23. The frequency calculations and the classification of the frequencies yielded the following results:

Card 1/2

Determination of the force...

S/181/63/005/004/G11/047
B102/B186

Phase	symmetry	type of vibration	$\nu_{\text{calc.}}, \text{cm}^{-1}$	$\nu_{\text{exp}}, \text{cm}^{-1}$
0	A_1	deform. vibr.	140	-
$2\pi/3$	E	"	270	278
$2\pi/3$	E	valency vibr.	650	660
0	A_2	"	492	480

There are 2 figures and 2 tables.

ASSOCIATION: Elektrotekhnicheskiy institut svyazi im. M. A. Bonch-Bruyevicha
Leningrad (Electrotechnical Institute of Communications imeni
M. A. Bonch-Bruyevich, Leningrad)

SUBMITTED: October 22, 1962

Card 2/2

L 33179-66 EWT(1)/EWT(m)/I/EWP(t)/ETI IJP(c) JD/GG
 ACC NR: AR6016234 SOURCE CODE: UR/0058/65/000/011/ED70/ED70

AUTHOR: Bovtsov, V. G.; Tazekov, B. A.

TITLE: Processes of capture and liberation of current carriers in high-resistance selenium films

SOURCE: ²¹Ref. zh. Fizika, Abs. 11E557 74

REF SOURCE: Sb. Fizika. Dokl. k XXXIII Nauchn. konferentsii Leningr. inzh.-stroit. in-ta. L., 1965, 37-40 13

TOPIC TAGS: selenium, volt ampere characteristic, photoconducting film, depolarization, electron capture, light absorption 2

ABSTRACT: The authors investigated the volt-ampere characteristics of electrophotographic layers of Se with clamped electrodes. Slow "drooping" changes of current were established when the voltages were turned on or increased. An investigation was made of the long-wave limit of the depolarization current, caused by short-circuiting in darkness a previously illuminated film. This has made it possible to establish the position of the deep traps with $E < 2.5$ ev responsible for the slow processes, which is in agreement with data on optical absorption of Se. The density of the captured photocarriers near the illuminated electrode (at a thickness $\sim 10^{-5}$ cm) is estimated ($> 10^{16}$ cm $^{-3}$). V. Litovchenko. [Translation of abstract]

SUB CODE: 20

Cord 1/1 mc

AUTHOR: Boytsov, V.I., Engineer. SOV/100-58-5-12/15
TITLE: A Heated Auto Body. (Podogrevayemyy kuzov avtomobilya).
PERIODICAL: Mekhanizatsiya Stroitel'stva, 1958, Nr 5, p 31.
ABSTRACT. Description of the heating system of the "Dodge" Lorry
used for the transportation of asphalt, by Messrs. Tarslag
Ltd., England. There is one illustration.
1. Trucks--Heating

Card 1/1

BOYTSOV, V.I., inzh.; MIKHAYLOV, A.N., inzh.; SAFRANOV, V.N., tekhnik;
LESNYAKOV, F.I., red.; DONSKAYA, G.D., tekhn.red.

[Technical specifications for overhauling of the D-265 motor grader] Tekhnicheskie usloviia na kapital'nyi remont avtogreidera D-265. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1959. 93 p. (MIRA 12:12)

1. Moscow. Vsesoyuznyy dorozhnyy nauchno-issledovatel'skiy institut. 2. Sotrudniki laboratorii ekspluatatsii i remonta dorozhnykh mashin Gosudarstvennogo vsesoyuznogo dorozhnogo nauchno-issledovatel'skogo instituta Glavdorstroya Ministerstva transportnogo stroitel'stva SSSR (for Boytsov, Mikhaylov, Safranov).
(Graders (Earth-moving machinery)--Maintenance and repair)

CHUDAKOV, Konstantin Petrovich, kand.tekhn.nauk; BOYTSOV, Vsevolod Ivanovich, inzh.; SLEZNIKOV, G.I., nauchnyy red.; LEYKINA, A.K., red.; PERSON, M.N., tekhn.red.

[Repair of building machinery] Remont stroitel'nykh mashin.
Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1960. 354 p.
(MIRA 13:12)

(Building machinery--Maintenance and repair)

SIMONENKO, Petr Kirillovich; GOROVY, Mikhail Yerofeyevich; KARNAUKH, Vitaliy Ivanovich; PRUSOV, Vsevolod Vasil'yevich; BOYTSOV, Vsevolod Ivanovich; BOROK, M.Ye., red.; GALAKTIONOVA, Ye.N., tekhn. red.

[Handbook for road construction engineers] Spravochnik inzhenera mekhanika dorozhnika. Moskva, Nauchno-tekhn. izd-vo M-va Avtomobil'nogo transp. i shosseinykh dorog .SFSR, 1961. 375 p. (MIRA 14:8)
(Road machinery)

BOBROVNIKOV, G.N.; BOYTSOV, V.I., inzh.

Designing and testing hydraulic buffers. Izv.vys.ucheb.zav.; mashinostr.
no.4:61-70 '61. (MIRA 14:6)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.
(Hydraulic brakes)

BOYTSOV, V.I., inzh.

Accelerated method of determining the wear of tooth gears. Stroi.
i dor. mash. 9 no.5:22-24 My '64. (MIRA 17:6)

L 47083-65 ENG(j)/EKT(m)/FCC/T/EWP(j)/EWA(h)/EWA(1) Pg-4/Peb TJP(c) RM

ACCESSION NR: AP5007027

S/0120/65/000/001/0069/0076

AUTHOR: Khrstiansen, G. B.; Abrosimov, A. T.; Bogoslovskiy, G. V.;
Boytsov, V. I.; Solov'yev, K. I.

33
27
B

TITLE: Outfit for investigating extensive showers by means of a set of
scintillation counters

SOURCE: Priboiy i tekhnika eksperimenta, no. 1, 1965, 69-76

TOPIC TAGS: extensive shower, scintillation counter

ABSTRACT: The addition of 20 scintillation counters in 1962 to the Moscow University outfit for extensive-shower recording is reported. Plastic (polystyrene with 1% PPP + 0.04% POPOP) rectangular 707x707x65-mm scintillation counters have a total area of 10 m². The counters and the electronic equipment permit a wide-range recording of stream densities and the relative arrival times of cosmic particles. Curves of the differential spectrum of pulse heights, of

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ACCESSION NR: AP500'027

height-channel calibration, and of counter nonuniformity depending on the particle travel are presented. The principal circuits of preamplifiers, amplifiers, pulse-delay measuring devices, and pulse recorders are supplied. "In conclusion, the authors wish to thank S. N. Vernov for directing the work, and V. B. Atrashkevich, Ya. L. Blokh, V. Kh. Leonov, and D. I. Protasov for their help." Orig. art. has: 8 figures and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 03Dec63

ENCL: 00

SUB CODE: NP

NO REF SOV: 007

OTHER: 000

bjo
Card 2/2

BOYTSOV, V.I.

Experience gained with a modernized MI-1 laboratory-type
friction-testing machine. Zav. lab. 31 no.8:1026 '65.

(MIRA 18:9)

1. Vsesoyuznyy dorozhnyy nauchno-issledovatel'skiy institut
Gosudarstvennogo proizvodstvennogo komiteta po transportnomu
stroitel'stvu SSSR.

Boytsov, V.V.

PHASE I BOOK EXPLOITATION 160

Boytsov, V.V.

Normalizovannyye prispособleniya dlya sborki agregatov samoleta
(Standardized Devices for Assembling Aircraft) Moscow,
Oborongiz, 1955. 234 p. Number of copies printed not given.

Ed.: Bakhrakh, N.M.; Tech. Ed.: Zudakin, I.M.

PURPOSE: The book is intended basically for designers of assembling equipment in the aircraft construction industry, but it may be helpful also to workers in other branches of machine building; it may also serve as a manual in training specialists.

COVERAGE: The book describes standardized assemblies and devices for assembling aircraft, methods of design and calculation, and special technological processes in mounting assembling devices. The author states that this book is the first work dealing with standardization of assembling equipment. He thanks A.A. Tselibeyev, V.P. Shatin, U.I. Govberg, B.A. Khropik and others who assisted him in the development of design standardization; he expresses his special

Card 1/5

Standardized Devices for Assembling Aircraft 160

gratitude to V.I. Tikhonov for valuable help in preparing the materials of the book. There are 5 Soviet references.

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AVAILABLE: Library of Congress

Card 5/5

IMS/ksv
7-29-58

Boytsov, V.V.

135-58-4-1/19

AUTHORS: Boytsov, V.V., Professor; Kostyuk, V.A., Candidate of Technical Sciences; and Orlov, B.D., Candidate of Technical Sciences

TITLE: Mechanization and Automation of Welding Processes (Mekhanizatsiya i avtomatizatsiya svarochnykh protsessov) The Automation of Welding Operations in the Aviation Industry (Avtomatizatsiya svarochnykh rabot v aviatsionnoy promyshlennosti)

PERIODICAL: Svarochnoye Proizvodstvo, 1958, Nr 4, pp 1-5 (USSR)

ABSTRACT: The article contains general information on the automation of welding processes in the Soviet and foreign aviation industry. A total of 14 photos show various types of welding devices. The authors mention special Soviet equipment such as: a series of machines for welding aluminum alloys designed by VNIIESO and the "Elektrik" plant; an electronic current stabilizer (type "RAST - 4A"); a modulator for spot welding providing the smooth increase and drop of the welding current pulses (type "ME - 1"); and some unique machines for spot and roller welding with a

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135-58-4-1/19

Mechanization and Automation of Welding Processes. The Automation of
Welding Operations in the Aviation Industry

cantilever range of up to 3 m; designed by "Elektrik".
There are 14 photographs and 5 non-Soviet references.

AVAILABLE: Library of Congress

Card 2/2

AUTHOR: Boytsov, V.V., Professor SOV/28-58-6-2/34

TITLE: The Complex Normalization of Elements of the Production Process is the Means of Improving Machine Building (Kompleksnaya normalizatsiya elementov proizvodstvennogo protsessa - osnova sovershenstvovaniya mashinostroyeniya)

PERIODICAL: Standartizatsiya, 1958, Nr 6, pp 8-14 (USSR)

ABSTRACT: Many workers in the machine building industry now have high qualifications. It is possible to give 15% of all technological processes to the foremen for decision. This decreases the volume of technological documents by 12-15%. The machine parts can be divided into standard and normalized parts which are the same for all machines of a given type and are 10-15% of the total number of parts; typical parts which are the same for most machines of a given type and amount to 80% of the total; special parts (5-10%) which are used for a single model of a machine. The normalization of most of these parts reduces the labor of the techno-

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SOV/28-58-6-2/34

The Complex Normalization of Elements of the Production
Process is the Means of Improving Machine Building

logical processes 2-3 times and the volume of documents 60-70%. Normalization of equipment permits the assembly of machine tools from standard parts. The degree of normalization may reach 80% of the equipment. Normalization of the equipment reduces the time required for manufacturing special equipment by 40%. More than 1,000 different machine tools and several automatic lines which are assembled from standard parts are already in operation at various plants. These machine tools are of a relatively complex type with a productivity 6-8 times higher than universal machine tools.

ASSOCIATION: NIAT

doc 2/2

PHASE I BOOK EXPLOITATION

SOV/4218

Boytsov, Vasiliy Vasil'yevich, Vasiliy Prokhorovich Grigor'yev, Mikhail Ivanovich Razumikhin, Anna Andreyevna Selezneva, and Yevgraf Porfir'yevich Shekunov (Deceased)

Sborochnyye i montazhnyye raboty (Assembling and Erecting Operations). Moscow, Oborongiz, 1959. 476 p. (Series: Tekhnologiya samoletostroyeniya) Errata slip inserted. 6,000 copies printed.

Reviewer: G.A. Belyavskiy, Eng.; Ed.: Yu.M. Brodyanskiy, Eng.; Ed. of Publishing House: I.A. Suvorova; Tech. Ed.: N.A. Fukhlikova.

PURPOSE: This book is intended as a textbook for students in aeronautical schools of higher education and may be used by specialists in aircraft production.

COVERAGE: The book discusses the general problems of assembling and erecting operations in aircraft production, as well as the technological requirements for the construction of assemblies, panels, and units of an aircraft. A detailed study is made of the problems of the technological preparation of production, methods of designing, and the making and checking of assembly devices. The authors thank S.V. Yelisseyev, Candidate of the Technical Sciences, Docent at the Moscow Aviation Institute, and K.N. Vezenitsyna, Engineer, for their

~~Card 4/11~~

Assembling and Erecting Operations

SOV/4218

help in writing and editing the book. There are 12 references: 11 Soviet and 1 English.

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GROMOVA, Antonina Nikiforovna; ZAV'YALOVA, Valentina Ivanovna; KOROBov, Vladimir Konstantinovich; BOYTSOV, V.V., prof., red.; BEKIN, S.S., inzh., retsenzent; SHEKHTER, V.Ya., kand.tekhn.nauk, red.; SHAYN-PAYN, L.I., izdat.red.; PUKHLIKOVA, N.A., tekhn.red.

[Manufacturing parts of sheets and sections in lot production]
Izgotovlenie detalei iz listov i profilei pri seriinom proiz-
vodstve. Pod obshchei red. V.V.Boitsova. Moskva, Gos.nauchno-
tekhn.isd-vo Oborongiz, 1960. 343 p. (MIRA 13:7)
(Metalwork)

S/028/60/000/011/002/007
B020/B058

AUTHOR: Boytssov, V. V.

TITLE: Grouping and Standardization of the Structural Elements
of Special and Specialized Installations - Basis for the
Automation of Production Processes in Machine Construction

PERIODICAL: Standartizatsiya, 1960, No. 11, pp. 7-15

TEXT: The author points out the necessity of increasing the production of standardized elements for the construction of machine tools and lines during the next years to such an extent that machine construction plants themselves should be able to manufacture up to 50% of the necessary specialized machine tools and automatic lines. At some machine tool plants the transition from individual production of specialized machine tools to their production in series and even to mass production of standardized elements permits to increase by many times the amount of manufactured automatic installations with the same production capacity of the machine tool industry. Specialized machine tools (Fig. 1) and automatic lines (Fig. 2) of completely interchangeable design, which consist almost entirely of standardized elements, were developed in some branches of Soviet

Card 1/3

Grouping and Standardization of the Structural S/028/60/000/011/002/007
 Elements of Special and Specialized Installa- B020/B058
 tions - Basis for the Automation of Production
 Processes in Machine Construction

machine construction and successfully used. A system is proposed for the design and assembly of automatic machine tools and lines from standardized elements, produced by specialized machine tool plants, which is of great importance for medium and large machine tool plants. The assembly of specialized machine tools and automatic lines can thus be split up into a number of independent stages which can be conducted by various manufacturers (Fig. 3). The following establishments are mentioned: the establishments of the Moskovskiy (gorodskoy) sovnarkhoz (Moscow (Municipal) sovnarkhoz) (tormoznoy zavod (Brake Plant), karburatornyy zavod (Carburetor Plant), "Dinamo" ("Dynamo"), prozhektornyy zavod (Searchlight Plant), and others, those of the Tatarskiy sovnarkhoz (Tatarsk sovnarkhoz), Kuybyshevskiy sovnarkhoz (Kuybyshev sovnarkhoz), Bashkirskiy sovnarkhoz (Bashkir sovnarkhoz), Voronezhskiy sovnarkhoz (Voronezh sovnarkhoz), the konstruktorskoye byuro stankostroyeniya (Design Office for Machine Construction), the Minskiy stankozavod (Minsk Machine Tool Plant), the Moskovskiy zavod im. Ordzhonikidze (Moscow Plant imeni Ordzhonikidze), avtomobil'nyy zavod im. Likhacheva (Automobile Plant imeni Likhachev), and the "Series of Basic Parameters of Power Heads" ("Ryady osnovnykh

Card 2/3

Grouping and Standardization of th. Structural S/028/60/000/011/002/007
Elements of Special and Specialized Installa- B020/B058
tions - Basis for the Automation of Production
Processes in Machine Construction

parametrov silovykh golovok") authorized by the Gosudarstvennyy komitet
po avtomatizatsii i mashinostroyeniyu (State Committee on Automation
and Machine Construction). Finally the author points out that the
Gosplan SSSR (State Planning Committee of the Council of Ministers of
the USSR), Gosudarstvennyy komitet po avtomatizatsii i mashinostroyeniyu
(State Committee on Automation and Machine Construction), Gosudarstvennyy
nauchno-tekhnicheskiy komitet (State Scientific Technical Committee) and
the Komitet standartov, mer i izmeritel'nykh priborov (Committee on Stand-
ards, Measures, and Measuring Instruments) should take measures in this
direction. The editorial office invites readers to a discussion of this
paper. There are 3 figures. ✓

Card 3/3

Establishing All-Union...

S/028/61/000/002/006/006
B116/B206

(State Committee on Automation and Machine Construction)) are actually no standardizations since they do not contain the main data of the power packs. The demand of machine construction can be reproduced most completely in All-Union standardization if the branch standardizations elaborated by considering the specific needs of the different machine construction branches are taken as a basis. A short characteristic is given of such a standardization of machine tools elaborated by the NII tekhnologii i organizatsii proizvodstva (NII for the Technology and Organization of Production) and approved at the conference of delegates of leading machine construction branches. Special and specialized metal processing equipment can be divided into seven types: 1) machine tools with round or polyhedral column; there are different variants according to the table design; 2) machine tools with rectangular column; 3) with a drum; 4) with a gantry; 5) automatic circular machine lines with power packs at the circumference and on a central column, or on side columns; 6) straight automatic machine lines; 7) rotating automatic machine lines. A project was elaborated for the standardization of normalized assemblies of special and specialized machine tools and automatic machine lines on the basis of an analysis of all types and dimensions of the

Card 2/10

Establishing All-Union...

S/028/61/007/002/006/006
B116/B206

machine tools and machine lines mentioned. The standardization of power packs is given in abbreviated form in Table 1 as an example. While the designers of the zavod im. S. Ordzhonikidze (Plant imeni S.Ordzhonikidze) considered it suitable to use a hydraulic drive, a mechanical drive is used as a rule at the Minskiy stankozavod (Minsk Machine Tool Plant). In Table 2, the planned ranges of application are shown for the various types of feed drives. According to their technological application, the tables are divided into 4 main groups: drive, indexing, combined, and adjusting tables. For better comprehension, a numerical system is proposed for the description of each assembly. Two such schemes are shown here. There are 3 tables.

1)	2)	3)	4)	5)	6)	7)	8)	9)	Таблица 1	10)
Обозначение	Мощность, л.с.	Эффективное усилие, кг	Ход, мм	Вид привода подачи	Конструктивное исполнение	Назначение головки	Пределы чисел оборотов шпинделя, об. мин.	Пределы подач, мм/мин	Точность	Обозначение существующих узлов
77300.550	0,1	Гарни- рование до 10	25	13) Механиче- ская	14) Пинольная не- самодейст- вующая	15) Сверзильная	2500-15000	10-100	16) Нормаль- ная	
77300.650	0,2	60	40	18) Гидравличе- ская	19) Корпусная несамодейст- вующая	20) Расточная прецизионная	630-9000	28-315	17) Нормаль- ная по- вышен- ная	
77300.180	0,2	60	40				1500-6000	15-400	21) Высокая.	

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77300.500	0,2	60	40	13) Механиче- ская	22) Пинцольная самодейст- вующая	15) Сверлильная 630-9000 (5.0-3118)	28-315 (9-1000)	16) Нормаль- ная	ГС-14
77300.530	0,2	60	40			23) Резьбонарез- ная	140-710 (120-525)	35-400 (3-300)	ГС-15
77301.150	0,4	160	60 (90)	18) Гидравличе- ская	17) Корпусная несамодейст- вующая	15) Сверлильная 315-6300 (350-2800)	25-400 (15-400)	17) Повышен- ная	ГСФ-02
77301.180	0,4	160	60 (90)			24) Расточная прецизионная	200-6300 (1300-6000)	15-500 (15-400)	ГР-02
77301.530	0,4	160	60 (90)	13) Механиче- ская	23) Пинцольная самодейст- вующая	25) Резьбонарез- ная	100-560 (400-1600)	50-300 —	ГРН-01
77301.500	0,4	160	60 (35)			15) Сверлильная	1120-12000	11,5-1800	УМ-4001
77302.150	0,8	320	100	13) Гидравличе- ская	17) Корпусная несамодейст- вующая		20-4000	20-560	
77302.180	0,8	320	100			25) Расточная прецизионная	100-4000	20-630	
77302.200	0,8	320	100 (150)	16) Пневматиче- ская	23) Корпусная самодейст- вующая	15) Сверлильная	200-4000	20-560	ГС-10M
77302.010	0,8	320	100	13) Механиче- ская		30) Револьверная	200-4000	20-560	

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77302.02	0,8	320	Крут. Ø150 Осв. 50	22) Гидромеханическая	21) Несамодействующая	Фрезерная пластинчатая	63-180	16-400		
77302.500	0,8	320	100 (15)			15) Сферальная	200-4000 (120-3600)	20-500 -	16) Нормальная	АУ311-10
77302.520	0,8	320	110 (75)	15) Механическая	22) Гидроавтоматическая	15) Резьбонарезная	71-400 (120-3600)	55-500 -		АУ311-10
77302.501	0,8 (0,6)	320 (300)	100 (50)			15) Сферальная резьбонарезная	315-6300 (120-4100)	25-400 -		ГС-01
77303.700	1,5	600	250	26) Пневмогидравлическая		15) Сферальная	71-2500 (24-3515)	20-900 (10-400)		ГС-2М
77303.200	1,5-3	900	250		28) Корпусная самодействующая		71-2500 (53-1640)	16-900 (10-600)		ГС-7М
77303.100	1,5-3	900	250	18) Гидравлическая			71-2500 (710) (710) (62-1250)	16-900 (35-900)		ЗУ 4121 ЗУ 4123 ЗУ 4027

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1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Продолжение	11)
Обозначение	Мощность, кВт	Эквивалентное усилие по длине, кг	Ход, мм	Вид привода подачи	Конструктивное исполнение	Назначение головки	Пределы чисел оборотов шпинделя, об/мин	Пределы подачи, мм/мин	Точность	...	Обозначение существующих узлов

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77303.120	1,5-3	900	150	16)	Гидравлическая	32)	Фрезерная	35-1800	20-560	Нормальная	
77303.140	1,5	600	150			32)	Расточная прецизионная	125-2500	25-710	33)	Высокая
77303.000	1,5-3	900	150		28)	Корпусная самостоятельная	13)	Сверлильная	71-2500 (465; 710)	16-900 (17-245)	УМ 2223 АУ 311-10 1,7 кат
77303.030	1,5-3	900	150				31)	Сверлильная резонансная	45-250 (88-1650)	71-630 (7,5-600)	ГС-13М
77303.020	1,5-3	900	150	13)	Механическая		34)	Фрезерная	35-1800	20-560	
77303.021	1,5-3	900	150				33)	Фрезерная планетарная	35-1800	20-560	78314-01-000
77303.040	1,5-3	900	150				34)	Расточная	20-1250	25-710	
77303.010	1,5-3	900	150				36)	Резольверная	71-2500	56-900	
77305.050	5,5	2000	400-600		41)	Корпусная несамостоятельная		50-1000 (720)	16-1120 (14-1250)		ЗУ 4541
77305.100	5,5	2000	400-600	18)	Гидравлическая		15)	Сверлильная	50-1000 (720) (720) (56-1000) (720)	16-1120 (35-900) (20-450) (20-450) (114-1250)	ЗУ 4031 ЗУ 4033 ЗУ 4037 ЗУ 4041

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77305.120	5,5	2000	400-- 600	13) Механиче- ская	28) Корпусная самодельст- вующая	32) Фрезерная	28-710	25-710	Нормаль- ная	
77305.000	5,5	2000	400-- 600			15) Све рамальная	50-1000 (465; 720)	15-1120 (15-220) (10-335)		УМ 2233 УМ 2243
77305.020	5,5	2000	400-- 600			38) Фрезерная	28-710	25-710		
77305.021	5,5	2000	400-- 600			32) Фрезерная планетарная	28-710	25-710		
77306.000	10-17	5500	600-- 800			54) Сверляльная многошпин- дельная	20-710 (490; 730)	10-630 (10-349)		УМ 2253
77306.150	10-17	5500	600-- 800	15) Гидравличе- ская	17) Корпусная несамодельст- вующая		20-710 (730)	10-630 (7-650)		ЗУ 4551
77306.100	10-17	5500	600-- 800			15) Сверляльная	20-710 (730)	10-630 (7-650)		ЗУ 4051
77306.120	10-17	5500	600-- 800			32) Фрезерная	18-500	35-1000		
77308.100	30	10000	800--1250			15) Сверляльная	14-630 (730)	10-560 (7-450)		ЗУ 4061
77308.160	30	10000	800--1250				14-630 (730)	10-560 (7-450)		ЗУ 4561

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Legend to Table 1: 1) Designation, 2) output, kw, 3) feed power, effective, kg, 4) stroke, mm, 5) type of feed drive, 6) design, 7) purpose of the power pack, 8) speed range of spindle, rpm, 9) feed limits, mm/min, 10) accuracy, 11) designation of existing assemblies, 12) calibration test up to ten, 13) mechanical, 14) spindle sleeve, nonautomatic, 15) boring, 16) normal, 17) normal increased, 18) hydraulic, 19) housing, nonautomatic, 20) precision boring, 21) high, 22) spindle sleeve, automatic, 23) thread cutting, 24) increased, 25) high, 26) compressed air-hydraulic, 27) hydromechanical, 28) housing, automatic, 29) non-automatic, 30) capstan, 31) boring thread cutting, 32) milling, 33) milling, with planetary gearing, 34) boring, 35) boring with several spindles, 35) remark: 1) the speed and feed ranges of the existing power packs which do not agree with those adopted by standardization are between parentheses; 2) the feed power of the existing power packs is higher by 10-20% than the feed power laid down by standardization.

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Legend to Table 2: 1) Output of the power packs, kw, 2) type of drive, 3) mechanical, cam drive, 4) mechanical, spindle, 5) compressed air - hydraulic, 6) hydraulic, 7) for nonautomatic power packs, 8) for automatic power packs.

Таблица 2

1) Мощность головки, кВт	0.1	0.2	0.4	0.8	1.5	2	5.5	10	17	30
2) Вид привода										
3) Механический кулачковый										
4) Механический винтовой										
5) Пневмогидравлический										
6) Гидравлический:										
7) для несамодельствующих головок										
8) для самодельствующих головок										

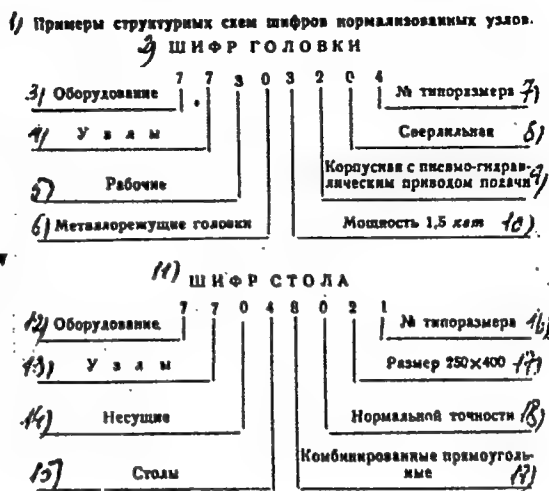
Table 2

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Legend to the diagrams: 1) Examples of schematic diagrams for the coding of normalized assemblies, 2) cipher of the power pack, 3) equipment, 4) assemblies, 5) working-, 6) metal processing power packs, 7) number of the type dimension; 8) boring, 9) housing with compressed air-hydraulic feed drive, 10) output 1.5 kw, 11) cipher of the table, 12) equipment, 13) assemblies, 14) supporting, 15) tables, 16) number of type dimension, 17) dimension 250x400, 18) standard accuracy, 19) combined rectangular.



Card 10/10

BOYTSOV, V.V.

Problems in the mechanization and automation of processes in the
small-lot production of machinery manufacturing. Nauch.trudy

MIEI no.18:29-39 '61.

(MIRA 15:2)

(Machinery industry) (Automation)

VOLIK, Yu.P.; BOYTSOV, V.V.

Bottom stripping system in impact extrusion. Kuz.-shtam. proizv.
3 no.1:40-43 Ja '61. (MIRA 14:1)
(Extrusion (Metals))

BOYTSOV, V.V., doktor tekhn. nauk, prof.; STANKEVICH, V.G., inzh.,
retsenzent; SHUKHGAL'TER, L.Ya., kand. tekhn. nauk, red.;
BALANDIN, A.F., red. isdava; UVAROVA, A.F., tekhn. red.

[Mechanization and automation in small-lot production]Mechaniza-
tsiia i avtomatizatsiia v melkoseriinom proizvodstve. Moskva,
Mashgiz, 1962. 435 p. (MIRA 16:2)
(Automation) (Industrial management)

S/876/62/000/000/001/007
E191/E481

AUTHOR: Boytsov, V.V.

TITLE: Fundamental trends in the development of automation of machining in engineering production

SOURCE: Proyektirovaniye i ekspluatatsiya avtomaticheskikh liniy mekhanicheskoy obrabotki. Mosk. dom nauchno-tekhn. prop. Ed. by A.P. Vladziyevskiy. Moscow, Mashgiz, 1962. 3-24

TEXT: Until recently, mass production has been considered the essential condition for automation by the use of specialized machinery and automatic production lines. Only a few engineering plants are capable of creating such machinery. Delivery periods are long and the production plant becomes inflexible. Two thirds of the volume of engineering production is batch production. Universal machine tools are three times less productive than specialized machine tools. It is necessary to create specialized production equipment from standard elements which can make up to 90% of the plant. The advantages of standardizing are recited. Some examples are shown of a semi-automatic multi-position drilling and milling machine and an automatic production line. Deliveries
Card 1/2

Fundamental trends ...

S/876/62/000/000/001/007
E191/E481

are reduced from two years to three months for light machinery and from three years to 8 months for heavy machinery. The procedure in project work is described. (1) The machined components are classified. (2) The machined surfaces are classified. (3) Typical schemes of arranging auxiliary and preparatory work movements are established. (4) Typical equipment layouts are worked out. (5) Design elements of the plant are standardized. (6) Working layouts of the plant are designed. Examples are given of classification patterns, typical schemes of work movement and typical layouts of a specialized machine for the cutting of a sliding shoe type of component. A classification table for standard machine tool assemblies is reproduced with the main headings of supporting elements, transmission elements, driving elements, control elements and service elements. In the design of specialized plant from standard elements, one method is the standardization of basic elements of construction. The second method is the conversion of specialized unit construction machine tools and production lines into universal production lines. There are 8 figures.

Card 2/2

VOLIK, Yu.P.; BOYTSOV, V.V.; SAVIN, A.M.

Stamping automobile crosspiece forgings in sectional dies.

Avt.prom. 28 no.4:39-42 Ap '62.

(MIRA 15:4)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut
avtomobil'noy promyshlennosti.

(Dies (Metalworking))

BOYTSOV, V.V.; BUKHIN-BATYREV, I.K.

Development of high-speed stamping with special machines.
Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. i tekhn.
inform. no.3:86-90 '63. (MIRA 16:4)

(Forging)

ZAKHAROV, N.N., prof.; RAZUMOV, I.M., doktor ekon.nauk, prof., red.;
BOYTSOV, V.V., doktor tekhn. nauk, prof., red.; VLASOV, B.V.,
doktor tekhn.nauk, prof., red.; VOSKRESENSKIY, B.V., inzh.,
red.; KUZ'MIN, V.V., inzh., red.; LETENKO, V.A., kand.ekon.
nauk, dots., red.; SOKOLITSYN, S.A., kand. tekhn. nauk, red.;
SHUKHGAL'TER, L.Ya., kand. tekhn. nauk, dots., red.;
SEMEENOVA, M.M., red.izd-va; SALAZKOV, N.P., tekhn. red.;
EL'KIND, V.D., tekhn. red.

[Establishment of technical norms and the organization of
labor and wages in machinery manufacturing] Tekhnicheskoe
normirovanie, organizatsiia truda i zarabotnoi platy v ma-
shinostroenii. Moskva, Izd-vo "Mashinostroenie," 1964. 338 p.
(MIRA 16:7)

BOYTSOV, V.V.

Role of the standardization in the improvement of production
quality and development of the national economy. Izv. tekhn.
no.10:2-12 0 '64 (MIRA 18:2)

1. Predsedatel' Gosudarstvennogo komiteta standartov, mer i
izmeritel'nykh priborov SSSR.

BOYTSOV, V.R.

Standardization and the time. Rationalizatsiya 14 no.13:23-25 '64.

1. Chairman, State Committee of Standards, Measurements, and Measuring Instruments, U.S.S.R.

BOYTSOV, V.V.

~~Standard and time. Standartizatsiia~~ 28 no.7:3-6 J1 '64.

(MIRA 17:11)

1. Predsedatel' Gosudarstvennogo komiteta standartov, mer i
izmeritel'nykh priborov SSSR.